Electromechanical automatic operators

Overview

The LCN® electromechanical automatic operators are designed for durability and extended performance when used in primarily automatic applications. The electromechanical gearbox acts as a manual closer when the door is not automated or power is lost.

The low energy electromechanical Senior Swing (2800 and 9500 Series) is LCN’s toughest operator—designed specifically for medium to heavy duty use in mostly automated applications. The Senior Swing offers a digital control suite that provides precise control of a large range of built-in functions.

The low energy Benchmark operator (9100 Series) is designed for low to medium use commercial applications, also for primarily automated applications. With its slim design, the Benchmark is great for interior door applications when aesthetics are a concern.

Features and benefits

- UL Listed for self-closing doors without hold open, UL 325
- Tested and certified under ANSI 156.19
- ADA compliant
- Opening time from full close to backcheck is no faster than 3 seconds
- Less than 15 lbs. to open door manually
- On-board power supply (Benchmark 24VDC output and Senior Swing 24V AC or 24V DC output) to power card readers, actuators and safety circuits
### Features

<table>
<thead>
<tr>
<th></th>
<th>2800 Series</th>
<th>9500 Series</th>
<th>9100 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handed</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Mounting options</td>
<td>Concealed</td>
<td>Surface</td>
<td>Surface</td>
</tr>
<tr>
<td></td>
<td>2810 (Single)</td>
<td>9530 (Push/Single)</td>
<td>9130 (Pull)</td>
</tr>
<tr>
<td></td>
<td>2850 (Sim. Pair)</td>
<td>9540 (Push/Surface)</td>
<td>9140 (Push)</td>
</tr>
<tr>
<td></td>
<td>2860 (Ind. Pair)</td>
<td>9550 (Sim. Pair)</td>
<td>9150 (Sim./Ind. Pair)</td>
</tr>
<tr>
<td>On board power supply</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Digital control box</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Header length</td>
<td>Variable- See LCN catalog</td>
<td>36” - 49” (single) 72” - 98” (double)</td>
<td>27” or 36” (single) 72” (double)</td>
</tr>
<tr>
<td>Maintains memory after power loss</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Push ‘n go</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Power Boost</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Simultaneous pair with single control box</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Meets UL requirements</td>
<td>UL 325/228</td>
<td>UL 325/228</td>
<td>UL 325/228</td>
</tr>
</tbody>
</table>

All electromechanical operators are available in aluminum and dark bronze finishes.

### Sample common applications

#### Secure hospital hallway

- **Interior**
  - 8310-852 Actuators

- **Exterior**
  - 8310-856T Actuators

- **Actuators**
  - 8310-852
  - 8310-856T

- **Keypad**
  - LX-EL9927L NL-F-LBR
  - LX-EL9927L NL-F-LBR

- **Operational Diagram**
  - J Box
  - EP10
  - PS914-2RS-FA
  - J Box
  - PS914-2RS-FA
  - 2 x 18 to FA
  - 110 VAC
  - 9131
  - Interior
  - Exterior

- **Operation**
  - KP232 keypad exterior to signal EL latch retraction and enable exterior actuator through LX switches in panic device. Interior actuator always active.
  - Fire alarm to extend EL latch and disable automatic operator.

### Restroom doors

- **Interior**
  - 2 x 18
  - 4 x 18

- **Exterior**
  - 2 x 18

- **Actuators**
  - 8310-856T

- **Keypad**
  - LX-EL9927L NL-F-LBR

- **Operational Diagram**
  - J Box
  - EP10
  - PS914-2RS-FA
  - J Box
  - PS914-2RS-FA
  - 2 x 18
  - 110 VAC
  - 9131
  - Interior
  - Exterior

- **Operation**
  - No latching at this door. For a single occupancy restroom. Either actuator will open door at any time.

### Electrical data

- **2800, 9500 Series**
  - 120 VAC 60Hz input at 2.5 AMPS (2800 and 9500 Series)
  - 240 VAC 50/60 Hz at 2.5 AMPS (2800 and 9500 Series)
  - 24 VAC output at 1.5 AMPS (protected by self-resetting thermal fuse)
  - 24 VDC available with SO kit included

- **9100 Series**
  - 120 VAC 60Hz input at 1 AMPS
  - 24 VDC output at 2.5 AMPS

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**About Allegion**

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit [www.allegion.com](http://www.allegion.com).

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